

## Title (en)

NOVEL TRANSITION METAL COMPLEX AND USE THEREOF IN ORGANIC LIGHT-EMITTING DIODES - III

## Title (de)

NEUE ÜBERGANGSMETALL-KOMPLEXE UND DEREN VERWENDUNG IN ORGANISCHEN LEUCHTDIODEN - III

## Title (fr)

NOUVEAUX COMPLEXES DE MÉTAUX DE TRANSITION ET LEUR UTILISATION DANS DES DIODES ÉLECTROLUMINESCENTES ORGANIQUES III

## Publication

**EP 2288671 B1 20120815 (DE)**

## Application

**EP 09761713 A 20090609**

## Priority

- EP 2009057088 W 20090609
- EP 08157949 A 20080610
- EP 09761713 A 20090609

## Abstract (en)

[origin: WO2009150150A1] Metal complexes comprising at least one polycyclic aromatic ligand bound to the central metal by way of two nitrogen atoms, an organic light-emitting diode comprising at least one metal complex according to the invention, a light-emitting layer comprising at least one metal complex according to the invention, an organic light-emitting diode comprising at least one light-emitting layer according to the invention, use of the at least one metal complex according to the invention in organic light-emitting diodes and a device selected from the group consisting of stationary screens, such as computer or television screens, screens in printers, cooking devices and billboards, lighting, information boards and mobile screens such as screens in cell phones, laptops, digital cameras, vehicles and destination displays on busses, trains and trams, said device comprising at least one organic light-emitting diode according to the invention.

## IPC 8 full level

**C09K 11/06** (2006.01)

## CPC (source: EP KR US)

**C07D 307/78** (2013.01 - KR); **C07D 471/04** (2013.01 - KR); **C07F 13/00** (2013.01 - KR); **C07F 15/004** (2013.01 - EP US); **C07F 15/0093** (2013.01 - EP US); **C09K 11/06** (2013.01 - EP KR US); **H05B 33/14** (2013.01 - KR); **H10K 50/00** (2023.02 - KR); **H10K 85/342** (2023.02 - EP US); **C09K 2211/1007** (2013.01 - EP US); **C09K 2211/1014** (2013.01 - EP US); **C09K 2211/1044** (2013.01 - EP US); **C09K 2211/1048** (2013.01 - EP US); **C09K 2211/1051** (2013.01 - EP US); **C09K 2211/1059** (2013.01 - EP US); **C09K 2211/1074** (2013.01 - EP US); **C09K 2211/185** (2013.01 - EP US); **H10K 50/11** (2023.02 - EP US); **H10K 2101/10** (2023.02 - EP US)

## Citation (examination)

- WO 2008156879 A1 20081224 - UNIVERSAL DISPLAY CORP [US], et al
- WO 2009085344 A2 20090709 - UNIVERSAL DISPLAY CORP [US], et al
- WO 2007095118 A2 20070823 - UNIVERSAL DISPLAY CORP [US], et al
- PENG XIE ET AL: "Structure-Based Design of an Organoruthenium Phosphatidyl-inositol-3-kinase Inhibitor Reveals a Switch Governing Lipid Kinase Potency and Selectivity", ACS CHEMICAL BIOLOGY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 3, no. 5, 16 May 2008 (2008-05-16), pages 305 - 315, XP002544904, ISSN: 1554-8929, [retrieved on 20080516], DOI: DOI:10.1021/CB800039Y

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**WO 2009150150 A1 20091217**; CN 102089403 A 20110608; EP 2288671 A1 20110302; EP 2288671 B1 20120815; JP 2011524868 A 20110908; KR 101656793 B1 20160912; KR 20110015700 A 20110216; US 2011098473 A1 20110428; US 8377332 B2 20130219

## DOCDB simple family (application)

**EP 2009057088 W 20090609**; CN 200980126907 A 20090609; EP 09761713 A 20090609; JP 2011512960 A 20090609; KR 20117000623 A 20090609; US 99737809 A 20090609